NOVIKOV, S.S.; SLOVETSKIY, V.I.; SHEVELEV, S.A.; FAYNZIL'BERG, A.A.

Spectrophotometric determination of the dissociation constants of aliphatic nitro compounds. Izv.AN SSSR Otd.khim.nauk no.4: 598-605 Ap '62. (MIRA 15:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Nitro compounds) (Dissociation)

SLOVETSKIY, V.I.; SHEVELEV, S.A.; YERASHKO, V.I.; FAYNZIL'BERG, A.A.; NOVIKOV, S.S.

Structure of salts of 1,1-dinitroalkanes and trinitromethane.

Izv.AN SSSR.Otd.khim.nauk no.6:1126 '62. (MIRA 15:8)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Paraffins--Spectra)

S/C62/63/000/001/007/025 B101/B186

AUTHORS:

Slovetskiy, V. I., Shevelev, S. A., Yerashko, V. I.,

Faynzil'berg, A. A., and Novikov, S. S.

TITLE:

Spectrometric structural analysis of the salts of

1,1-dinitro alkanes and trinitro methane

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 1, 1963, 57-63

TEXT: A comparative study was made of the IR spectra of the lithium, potassium sodium and ammonium salts of 1,1-dinitro methane, 1,1-dinitro ethane, 1,1-dinitro propane, 1,1-dinitrobutane, 1,1-dinitro pentane, 1,1-dinitro hexane, 1,1-dinitrodecane, and trinitro methane, in order to elucidate their structures. Results: All 1,1-dinitro alkanes have bands at ~1450,~1210, and ~1120 cm⁻¹, but no bands characterizing the stretching vibrations of N-O in the noncharged NO₂ groups exist in the

spectra of any of the compounds. The spectra of the salts show neither the two bands in the region of 800-900 cm⁻¹ that are found in free gemdinitro alkanes, whereof at least one is caused by the stretching vibra-Card 1/2

Spectrometric structural

s/062/63/000/001/007/025 B101/B186

tions of the C-N bond, nor bands characteristic of the C=N bond. The nature of the cation has no effect on the spectrum except that in ammonium salts additionally NH₄-ion bands appear as well as a weak 1580 cm⁻¹ band produced by hydrolysis. Conclusion: All nitro groups are equivalent and participate similarly in the formation of the anion. Hence, the formulas of the salts are [RC(NO₂)₂] M⁺ and [C(NO₂)₃] M⁺. No carbanions are present. There are 2 figures and 5 tables. The most important English-language references are: N. Jonathan, J. Molecul. Spectra, 7, 105 (1961); L. W. Kissinger, H. E. Ungnade, J. Organ. Chem., 25, 1471 (1960).

ASSOCIATION:

Institut organicheskoy khimii Akademii nauk SSSR (Institute of Organic Chemistry of the Academy of

Sciences USSR)

SUBMITTED:

March 26, 1962

Card 2/2

SHLYAPOCHNIKOV, V.A.; SHEVELEV, S.A.; YERASHKO, V.I.; FAYNZIL'BERG, A.A.; NOVIKOV, S.S.

Intensity of stretching N-O vibrations in nitro-alkanes and halogenated nitro alkanes. Izv.AN SSSR.Otd.khim.nauk no.9:1684-1686 S '62. (MIRA 15:10)

1. Institut oganicheskoy khimii ii. N.D.Zelinskogo AN SSSR. (Paraffins—Spectra)

NOVIKOV, S.S.; BABIYEVSKIY, K.K.; SHEVELEV, S.A.; IVANOVA, I.S.; FAYNZIL BERG, A.A.

Synthesis of 1,1,1,3,-tetranitro-2-alkylpropanes and their cleavage by the action of bases. Izv. AN SSSR.Otd.khim.nauk no.10:1853-1855 (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Propane) (Bases (Chemistry))

MOVIKOV, S.S.; SLOVETSKIY, V.I.; TARTAKOVSKIY, V.A.; SHEVELEV, S.A.; FAYUZIL'BERG, A.A.

On the existence of aci-forms of 1,1-dinitroalkanes and trinitromethane. Dokl. AN SSSR. 146 no.1:104-106 S 162. (MIRA 15:9)

l. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. Predstavleno akademikom M.I. Kabachnikom. (Paraffins) (Nitro compounds)

SLOVETSKIY, V. I.; SHEVELEV, S. A.; YERASHKO, V. I.; FAYNZIL'BERG, A. A.; NOVIKOV, S. S.

Structure of salts of 1,1-dinitroalkanes and trinitromethane studied by spectral methods. Izv. AN SSSR. otd. khim. nauk no.1:57-63 163. (MIRA 16:1)

1. Institut organicheskoy khimii AN SSSR.

(Paraffins—Spectra) (Nitro compounds—Spectra)

YERASHKO, T. L.; SHEVELEY, S.A.; FAYMAIL BERG, A.A.

Convenient process of obtaining disalars and dibramclinitromethans, Izv. AN SSSR, Ser. kbiz. no.11:2060-2061 '65. (MIRA 18:11) 1. Institut organizheskey khimil im. N.N. Zelinskogo AN SSSR.

L 36505-66 EWT(m)/EWP(j)/T WW/JW/WE/RM

ACC NR: AP6017880 SOURCE CODE: UR/0062/66/000/005/0930/0932

AUTHOR: Ustynyuk, L. A.; Shevelev, S. A.; Faynzil'berg, A. A.

ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, Academy of Sciences, SSSR (Institut organicheskoy khimii Akademii nauk SSSR)

TITIE: Effect of acylating agents on salts of 1,1-dinitroalkanes

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 5, 1966, 930-932

TOPIC TAGS: acylation, organic nitro compound, ethane, propane

ABSTRACT: The reactions of salts of gem-dinitroethane with the acylating agents acetyl chloride, acetic anhydride, acetyl nitrate, benzoyl chloride, methyl chloroacetate, and p-toluenesulfonyl chloride were all found to produce dinitroethyl ethylnitrolate CH3C(NO2)=N-O-C(NO2)2CH3 (I). Its yield varied over a wide range with the conditions of the reaction, i.e., the nature of the solvent and cation, proportion of the reactants, and temperature. Thus, in the reaction of the potassium salt of gem-dinitroethane with acetyl chloride in polar solvents (acetone, acetonitrile, dimethyl-formamide), the yield of (I) was ~30%, but in solvents of low polarity, where the potassium salt is practically insoluble, (I) was not formed at all. If however the triethylamine salt of gem-dinitroethane, which is soluble in all these solvents, is introduced into the reaction, the formation of (I) in substantial quantities is always

UDC: 542.91 + 547.232

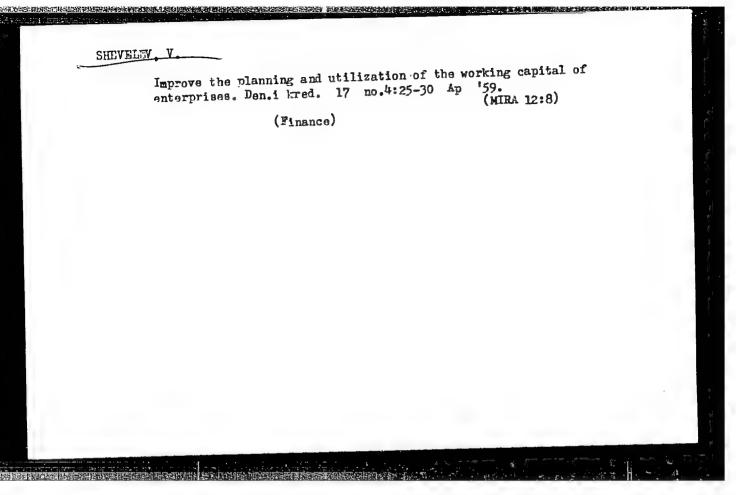
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"Meetings of the Chemical Sciences Section 28 - 29 September and 26 - 27 October," Iz.

"Meetings of the Chemical Sciences Section 28 - 29 September and 26 - 27 October," Iz.

Ak. Mauk SSSR, Otdel. Khim. Nauk, No. 2, 1949; "The Commission on Scientific Photography
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SHEVELEV, V.

Bank control over the observance of an economy regime by enterprises. Den.i kred. 18 no.5:25-31 My '60.

(MIRA 13:5)

1. Upravlyayushchiy Leningradskim otdeleniyem Gosbanka Moskvy.
(Moscow--Costs, Industrial) (Moscow--Banks and banking)

ZHADAN, V.Z.; SHEVELEV, V.A.

Automatic control of airtightness in sealing canned food. Kons. i ov. prom. 14 no.10:15-19 0 '59. (MIRA 12:12)

1. Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy promyshlennosti (for Zhadan). 2. Odesskiy mashinostroitel'nyy zavod imeni Kalinina (for Shevelev).

(Canning and preserving-Apparatus and supplies)
(Sealing (Technology))

SHEVELEY, Vasiliy Alekseyavich; BORULYA, A., red.; TELEGINA, T., tekhn. red.

[Bank control in industry]Bankovskii kontrol' v promyshlennosti; iz opyta raboty Leningradskogo otdeleniia Gosbanka Moskvy. Moskva, Gosfinizdat, 1962. 73 p.

(MIRA 16:4)

(Moscow—Banka and banking)

(Moscow—Auditing and inspection)

TUROVA, A.D.; SHEVELEV, V.A.; BAN'KOVSKIY, A.I.; ALESHKINA, A.A.

New drug "cardiovalen" for heart diseases. Apt.delo 5 no.3;43-45
My-Je '56. (MLRA 9:8)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta lekarstvennykh i aromaticheskikh rasteniy (VILAR)

(PHARMACOLOGY) (HEART--DISEASES)

SHEVELEV, V.A., kand.khimicheskikh nauk

New preparation from fresh medicinal plants is "Plantago juice."
Apt.delo 8 no.6:70-71 N-D 159. (MIRA 13:4)

1. Iz laboratorii tekhnologii Vsesoyuznogo nauchno-issledovatel -skogo instituta lekarstvennykh i aromaticheskikh rasteniy (VILAR).

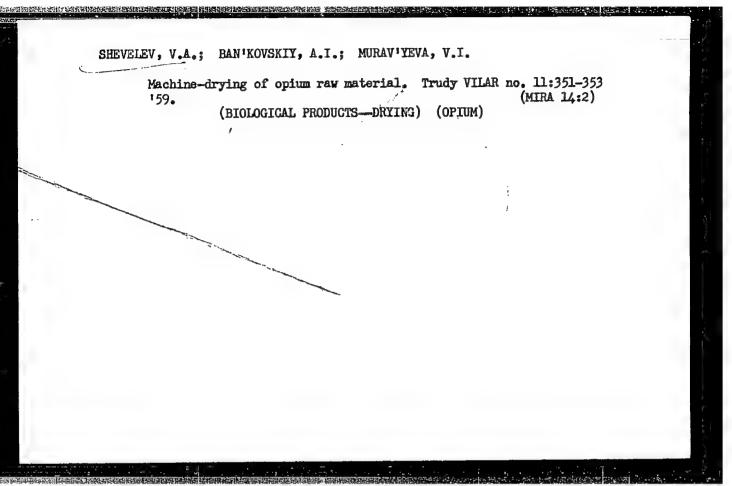
(PLANTAIN)

SHEVELEV, V.A.; BAN'KOVSKIY, A.I.; ALESHKINA, Ya.A.

Active substances of the cardiac drug "Kardiovalen." Trudy VILAR no. 11:317-329 '59. (MIRA 14:2) (CARDIAC GLYCOSIDES)

ROSTOTSKIY, B.K.; SHEVELEV, V.A.; BAN'KOVSKIY, A.I.

Methods for obtaining an insecticide preparation from Anabasis.
Trudy VILAR no. 11:330-350 '59. (MIRA 14:2)
(ANABASIS (BOTANY)) (ALKALOIDS) (INSECTICIDES)



BAN'KOVSKIY, A.I.; PEREL'SON, M.Ye.; SHEVELEV, V.A.

Alkaloids from globe thistle. Dokl. AN SSSR 148 no.5:1073-1076

F '63.

1. Vsesoyuznyy institut lekarstvennykh i aromaticheskikh rasteniy. Predstavleno akademikom M.M.Shemyakinym.

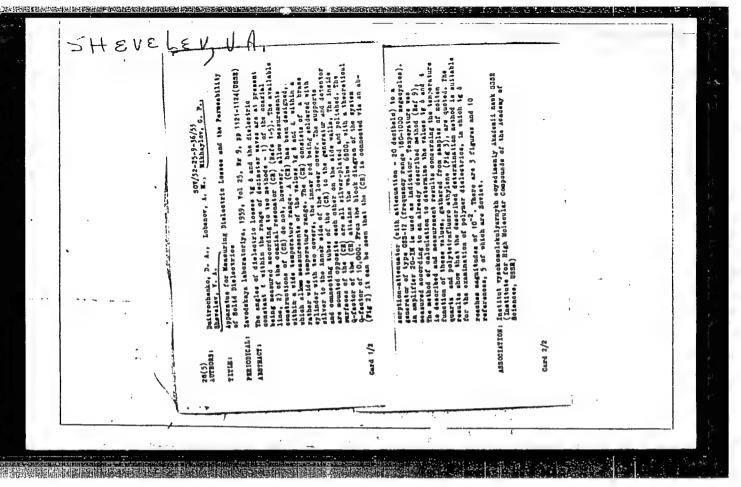
(Echinopsine)

(MIRA 16:3)

SHEVELEY, V.A., KRIVUT, B.A., KISELEVA, Ye.Ya.

Analysis of pharmaceutical preparations by the capillary fluorescence method. Apt. delo 14 no.5:56-60 S-0 '65. (MIRA 18:11)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut lekarstvennykh i aromaticheskikh rasteniy, Bittsa, Moskovskoy oblasti.



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MIKHAYLOV, G.P.; IOHANOV, A.M.; SHEVELEV, V.A.

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Temperature dependence of the dipole-elastic relaxation time of polymers. Vysokom.soed. 3 no.5:794-797 My '61. (MIRA 14:5)

1. Institut vysokomolekulyarnykh soyedineniy AN S SSR. (Polymers)

s/032/62/028/002/028/037 B124/B101

Mikhaylov, G. P., Shevelev, V. A., and Dmitrochenko, D. A.

Device for measuring dielectric losses and dielectric AUTHOLS:

constant of solid polymer dielectrics TITLE:

Zavodskaya laboratoriya, v. 28, no. 2, 1962, 234-236

TEXT: \mathcal{E}' and tand can be measured in a wide temperature range with a setup based on the standard measuring device. The measuring circuit was PERIODICAL: connected with the standard-signal generator FCC-17 (GSS-17) through attenuator AC-1 (AS-1) and YP-1A (UR-1A) or YP-2 (UR-2) broad-band amplifier. The measuring amplifier 28MM (28Im) was used as resonance indicator. indicator. The resonance frequency was checked with a yep- (UVR) The resonance frequency was enecked with a jor- (with a wavemeter. The first modification of the measuring circuit, shown in Fig. 1,a, is designed for use in a wide temperature range. The dielectric sample is placed into the gap of measuring capacitor 2 containing no mobile electrodes. Insulation 3 is made of a high-frequency geramic material. Thermostat 5 ensures constant temperature of loop 6, induction coil 7, detector crystal 8, and screen 9. The second modification, shown card 1/8/

s/032/62/028/002/028/037 B124/B101

Device for measuring dielectric losses ...

in Fig. 1,6, is designed for measurements at room temperature, with trimming condenser 10 being as close as possible to the gap of the measuring capacitor, thereby permitting accurate measurement of the sample capacitance. Plane parallel sample disks with a thickness of 0.001 to 0.005 mm in excess of that of the gap between the electrodes were used, the diameter of which was calculated from D_0 (D - 1.14d, where D_0 is the diameter of the sample, D is that of the electrodes, and d is the thickness of the sample. With the first modification, & is found from the change of resonance frequency after the introduction of the sample into the gap

of the measuring capacitor, i. e., from $\xi' = (c_n/c_0) \left[(f_1/f_2)^2 - 1 \right] + (f_1/f_2)^2$;

 $\tan \theta = \left[1 + (c_n/\epsilon'c_0)\right] \cdot \left[(1/c_2) - (1/c_1)\right]; c_0 = D_0^2/16d, \text{ and } c_n = c - c_0,$ where C is the total capacitance of the circuit, f, and f2 are the resonance frequencies in the absence and presence of the sample, Q and \mathcal{Q}_2 are the efficiencies of the circuit in the absence and presence of the Card 2/2/

Device for measuring dielectric losses ... S/032/62/028/002/028/037 B124/B101

2 figures and 9 references: 6 Soviet and 3 non-Soviet. The two references to English-language publications read as follows: ASTM, D150-54T; W. Reddish, Transactions of the Faraday Society, 46, 459 (1950).

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy Akademii nauk SSSR (Institute of High-molecular Compounds of the Academy of

Fig. 1. Schematic diagram of the measuring circuits. Legend: (A) water.

Card 4/5/

DMITROCHENKO, D.A.; LOBANOV, A.M.; SHEVELEV, V.A.

Apparatus for measuring the temperature dependencies of the dielectric constant 2' and dielectric loss ty 5. Zav.lab. 29 no.12:1495-1497 '63. (MIRA 17:1)

1. Institut vysokomolekularnykh soyedineniy AN SSSR.

S/0191/64/000/002/0009/0012 ACCESSION NR: AP4012183

AUTHORS: Mikhaylov, G. P.; Lobanov, A. M.; Shevelev, V. A.; Orlova,

TITLE: Dependence of tgband & of polyethylene on temperature in the

range of ultra high frequencies

SOURCE: Plasticheskiye massy*, no. 2, 1964, 9-12

TOPIC TAGS: polyethylene, ultra high frequency relaxation, high

frequency relaxation, dipole losses testing of plastic

ABSTRACT: For polyethylene rolled more than one hour at 160 C a field of maximum tgó at a frequency of 10° hertz is observed at room temperature. At frequencies of 3x10° and 4.7x10° hertz, tgó of polyethylene at temperature intervals of -60C to +160C passes through a peak zone three times; two types of losses at these two frequencies can be attributed to losses of mean frequency and high frequency relaxation, combined with orientational polarization in amorphous zones of polyethylene. Also at these frequencies new dipole losses appeared which are not to be attributed to three previously known

Card 1/2

ACCESSION NR: AP4012183

types of losses in polyethylene. It is also observed that during heat treatment of low density polyethylene in the presence of atmospheric oxygen, tgo in a maximum field at specified frequencies increases proportionally with time. In these specimens of polyethylene one wide field of tgo appears as a result of application of the three types of losses noted in the original polyethylene. Uneven changes typical of dipole polarization were observed first at temperature dependence & of polyethylene. In polyethylene at room temperature, tgo passes through the maximum field in the vicinity of frequency 4.7x108 hertz. The amount of tgo is extremely sensitive to the content of polar additions combined with macromolecules. This work served for a period as one of the foundations for recommendations for the All Union State Standard for testing of plastics at a frequency of 4.7x108 hertz. Orig. art. has: 4 Figures

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: MA

NR REF SOV: 015

OTHER: 005

2/2

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ACCESSION NR: AP4037283

S/0190/64/006/005/0868/0870

AUTHORS: Mikhaylov, G. P.; Lobanov, A. M.; Shevelev, V. A.; Orlova, T. P.

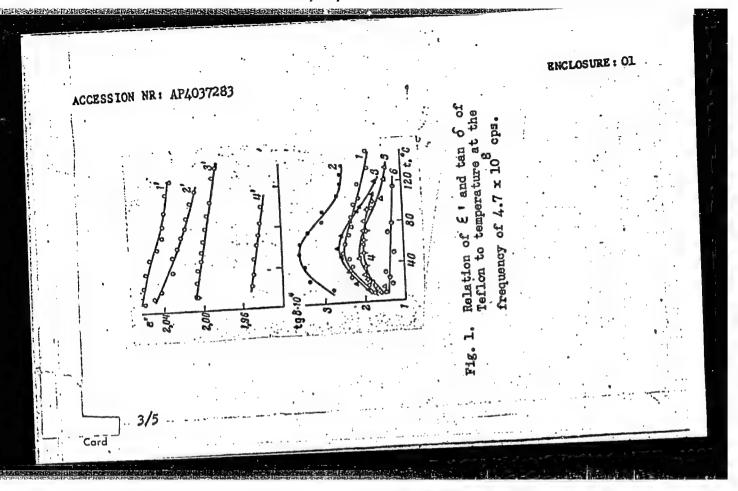
TITLE: The relation between epsilon prime and tan delta of Teflon and temperature at the frequency of $4.7 \cdot 10^8$ cycles per second

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 5, 1964, 868-870

TOPIC TAGS: polytetrafluorethylene, Teflon, epsilon prime Teflon, tan delta Teflon

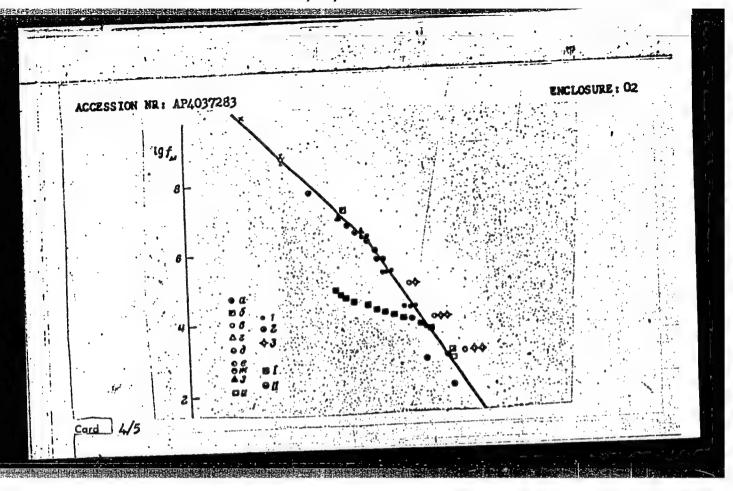
ABSTRACT: Measurements obtained using the method described by D. A. Dmitrochenko, A. M. Lobanov, G. P. Mikhaylov, and V. A. Shevelev (Zavodsk. lab., 1959, No. 9, 1121) are presented on Fig. 1 of the Enclosures. Here curves 1, 1', 5, and 6 pertain to the original annealed Teflon samples, curves 2 and 2' to the hardened samples, curves 3 and 3' to the compressed samples, and curves 4 and 4' to samples cut from the necked portion of samples subjected to tension. The low concentration of admixtures is probably responsible for the absence of tan 6 maximum at 1323K on curve 6. The increase of tan 6 max in hardening indicates that the observed losses are related to orientation processes in the amorphous phase of the polymer. The value of £' diminished during hardening, compressing, and

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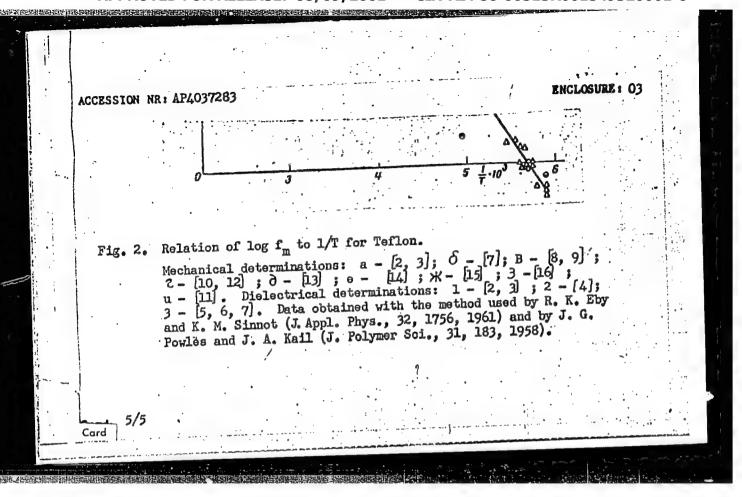


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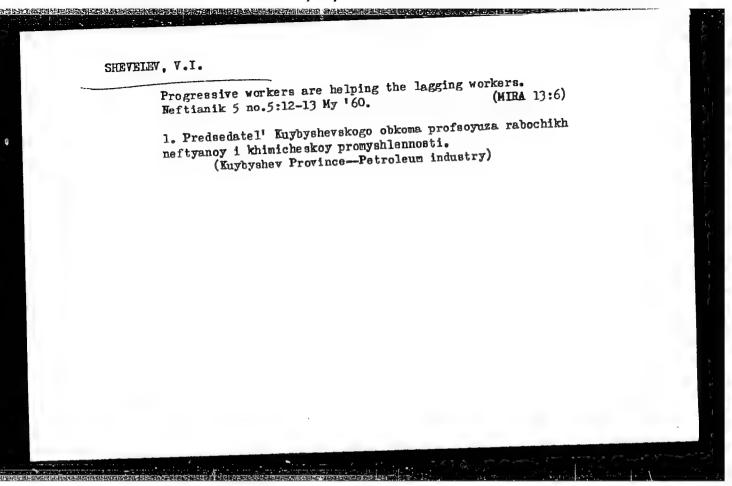


SHEVELEV, V.F., nachal'nik; VORONIN, K.N., sekrétar' partkoma inzhener.

Supplying industry continuously. Vest.mash. 33 no.4:66-67 Ap '53.

(MERA 6:5)

1. Otdel metallov ChTZ.



SHEVELEV, V. M.

"Investigation of the Traction Properties of the Tractor DT-54 on Ravine Slopes in the Forest-Steppe Region of the Ukrainian SSR." Cand Tech Sci, Ukrainian Order of Labor Red Banner Agricultural Acad, Min Higher Education USSR, Kiev, 1954. (KL, No 1, Jan 55)

SHEVELEY, V. J.

"Investigation of the Hauling Properties of the DT-54 Tractor When in Operation on the Forest Steppe Gullies of the Ukrainian SSR." Cand Tech Sci, Ukrainian Order of Laber Red Banner Agricultural Academy, Min Higher Education USSR, Kiev, 1955. (KL, No 12, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Education Institutions (15)

Street and the second design of the second

VYGODCHIKOV, G.V.; VOROB'YEV, A.A.; SALTYKOV, R.A.; LARINA, I.A.; ANAN'YEVA, Ye.P.; SHEVELEV, V.M.

Experimental study of the immunogenic properties of associated anerobic toxoids. Report No.1: Study of the immunological effectiveness of sextatoxoids in primary immunization of animals. Zhur.mikrobiol.epid.i immun; 32 no.1:28-32 Ja '61. (MIRA 14:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(TOXINS AND ANTITOXINS)

Determination of the immunogenic properties of sorbed botulism antitoxins of types A and R white mice. Zhur.mikrobiol.epid.i immun. 32 no.1:81-85 Ja '61. (MIRA 14:6) (BOTULISM)

VYGODCHIKOV, G.V.; VOROBOYEV, A.A.; SALTYKOV, R.A.; LARINA, I.A.; SHEVELEY, V.M.

Experimental study of immunogenic properties of associated anaerobic anatoxins. Report No.2:Study of the immunological effectiveness of a sexta-anatoxin following late re-immunization. Zhur. mikrobiol. epid. i immun. 32 no.7:74-77 Je '61; (MIRA 15:5) (TOXINS AND ANTITOXINS)

VOROB'YEV, A.A.; VASIL'YEV, M.N.; YEHICHEV, V.M.; PATRIKEYEV, C.T.;
SHEVELEV, V.M.; ZYEHN, V.D.; KORNEV, I.S.; ANAN'YEVA, Ye.P.
PRINIMALI' Uchastiye: ANDROSHCHUK, S.M.; NIKOLAYENKO, YU.P.;
MAKAROVA, V.A.; GHERNOVA, Yu.S.; POYARKOVA, M.A.; ICOUHNA, Yu.A.;
MORDUYEVA, A.A.

Study of botulin anatoxins. Report No.2: Botulin anatoxin type B.
Zhur.mikrobiol., epid. i immun. 32 no.10:68-72 0 '61. (MIRA 14:10)

(CLOSTRIDIUM BOTULINUM)

(TOXINS AND ANTITOXINS)

VYGODCHIKOV, G.V.; VOROB'YEV, A.A.; SALTYKOV, R.A.; LARINA I.A.; SHEVELEV, V.M.

Experimental study on polyvalent anaerobic toxoids. Part 4: Study of the immunological effectiveness of octatoxoid in late revaccination. Zhur. mikrobiol., epid. i immun. 40. no.1:127-132'63. (MIRA 16:10)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

VOROB'YEV, A.A.; VASIL'YEV, N.N.; SHEVELEV, V.M.; VORONOVA, Z.A.; PETROVA, Ye.K.; BAZHENOVA, G.A.; ANDROSHCHUK, S.M.

Study of botulin anatoxins. Report No.6: Type D botulin anatoxin. Zhur. mikrobiol., epid. i immun. 40 no.9:87-92 S'63.

(MIRA 17:5)

VYGODCHILOV, G.V., VOROB'YEV, A.A.; LARINA, I.A.; LABINSKIY, A.P.; GERMER, V.D.; SHEVELEV, V.M.; SERGEYEVA, N.S.

Experimental study of the immunogenic properties of combined anaerobic toxoids. Report No.5: Immunogenic properties of combined polytoxoid in primary immunization of animals. Zhur. mikrobiol., epid. i immun. 40 no.10:51-58 0 *63. (MIRA 17:6)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

ACCESSION NR: AP4025078

8/0016/64/000/003/0065/0069

AUTHOR: Shevelev, V. M.; Voronova, Z. A.; Rezepov, F. F.

TITLE: Antigen specificity of Cl. botulinum types C, D, and E

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 3, 1964, 65-69

TOPIC TAGS: botulism, Cl. botulinum types C, D, and E, botulinus toxin, botulinus heterogeneous toxin, antigen specificity, antigen affinity, neutralization reaction, precipitinogen

ABSTRACT: The degree of antigen affinity between Cl. botulinum types C, D, and E was determined by neutralization reaction of their toxins, passive and active immunization, and precipitation reaction with bacterial antigens. For neutralization reactions, antibotulinus serums types C, D, and E were mixed with various quantities of homoand heterogeneous toxins, kept at room temperature for an hour, and then were injected intravenously into white mice. Death rate and clinical symptoms during the following four days served as indices. For passive immunization antitoxin serums types C, D, and E were injected intravenously into white mice and an hour later homo- and

ACCESSION NR: AP4025078

heterogeneous toxins were injected intraperitoneally. To find possible cross immunity, actively immunized animals received single subcutaneous immunization with concentrated botulinus antitoxins types C, D, and E sorbed in aluminum oxide hydrate and immunity strength was tested. For cross precipitation reactions, boiled extracts of microbe cells common to 8 strains of Cl. botulinum C, D, and E were used as antigens. Findings show that botulinus toxins types C, D, and E have a certain antigenic affinity. Large doses of antitoxin for a given type are capable of neutralizing small doses of heterogeneous toxin. Active or passive immunization against botulinus toxins C, D, and E produces insignificant resistance to other type toxins. Cl. botulinum type D strains contain bacterial antigens (precipitinogens) common to antigens found in C and E type strains. Antigen specificity of Cl. botulinum types C, D, and E is confirmed by these data with only an insignificant affinity found between types C, D, and E. Orig. art. has: 4 tables.

ASSOCIATION: None

SUBMITTED: 18Jan62

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NR REF SOV: 001

ENCL: 00

OTHER: OOL

EWT(1)/EWA(j)/EWA(b)-2L 58311-65

ACCESSION NR: AP5013797

UR/0016/65/000/005/0114/0119

576.851.71.097.2.98

AUTHOR: Lukin, Ye. P.; Vasil'yev, N. N.; Vorob'yev, A. A.; Sheveley,

TITLE: Study of the immunological properties of soluble Rickettsia prowazeki antigen.

Report II. Isolation of the antigen by means of DEAE-cellulcse

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 5, 1965, 114-119

Rickettsia prowazeki, immunology, antigen, antibody, ion exchange chro-TOPIC TAGS: matography

ABSTRACT: The method of ion exchange with diethylaminoethyl-cellulose (DEAE-cellulose) was used to obtain purified preparations of soluble R. prowazeki. Fractions of soluble R. prowazeki antigen of both the virulent (Breinl) and vaccinal (E) strains obtained by separating preparations of soluble antigen in columns with DEAE-cellulose and present in eluates corresponding to an ionic strength of 0.2, 0.3, or 0.4 M NaCl proved to be immunologically active. In adequate doses (4-10 EC) they ensured the appearance of complement-fixing antibodies in the blood of vaccinated animals and protected them from subsequent infection with a virulent culture.

Card 1/2

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ACCESSION NR: AP5013797

degree of protection varied with the dose of antigen and its source (Breinl or E strain). To produce large quantities of soluble antigen by means of DEAE-cellulose requires the development of a technology for fractioning preparations on cellulose esters which possess ion-exchange properties. Orig. art. has: 3 tables.

ASSOCIATION: none

SUBMITTED: 07Apr64 ENCL: 00 SUB CODE: LS

NO REF SOV: 002 OTHER: 001

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i i	L 42067-65 EWT(1)/EWA(j)/			- 1	
ŧ .	ACCESSION NR: AP5010902		UR/0286/65/000/0 07/0092/0 0	93	
• ;	T.; Yenichev, V. M.; Zyb	yorob'yev, A. A.; Vasil' in, V. D.; Kornev, I. S.;	2		}
	A 1	s of types A and B. Class 3		B	
	SOURCE: Byulleten' izobre	teniy i tovarnykh znakov, no	. 7, 1965, 92-93		
•	: 1	ic substance, botulism, inoc	•		
;	concentrated, and sorbed w	tificate presents betulitie with aluminum hydroxide. To toxic titers of types A and	B and of the order 1-3	ROT"	
	AE/ml, one ml of each prei	toxic titers of types A and paration is made to contain ing anntoxins with specific and not over 3.5 mg of alumn	activity of no less than 3 imm hydroxide.	000	
	AE/ml, one mi of each pred one AE) of the corresponding EC/l mg of total nitrogen ASSOCIATION: none SUBMITTED: 18May60	aration is made to constitution	activity of no less than 3	000	
	AE/ml, one mi of each pred one AE) of the corresponds EC/l mg of total nitrogen ASSOCIATION: none	ing anatomins with specific and not over 3.5 mg of alum	activity of no less than 3 imm hydroxide.	1.22	
	AE/ml, one mi of each pred one AE) of the corresponding EC/l mg of total nitrogen ASSOCIATION: none SUBMITTED: 18May60	ing anatomins with specific and not over 3.5 mg of alum	activity of no less than 3 imm hydroxide.	,	
	AE/ml, one mi of each pred one AE) of the corresponding EC/l mg of total nitrogen ASSOCIATION: none SUBMITTED: 18May60	ing anatomins with specific and not over 3.5 mg of alum	activity of no less than 3 imm hydroxide.	2000	
	AE/ml, one mi of each pred one AE) of the corresponding EC/l mg of total nitrogen ASSOCIATION: none SUBMITTED: 18May60	ing anatomins with specific and not over 3.5 mg of alum	activity of no less than 3 imm hydroxide.		
	AE/ml, one mi of each pred one AE) of the corresponding EC/l mg of total nitrogen ASSOCIATION: none SUBMITTED: 18May60	ing anatomins with specific and not over 3.5 mg of alum	activity of no less than 3 imm hydroxide.		

L 64318-65 ENT(1)

ACCESSION NR: AP5020215

UR/0170/65/009/001/0064/0069

536.3

AUTHOR: Shevelev, 1

. M. : Markov. B.

11 44.55

TITLE: Measurement of the radiant properties of a flame with a radiometer with-

out means of condensation

SOURCE: Inzhenerno-fizicheskiy zhurnal, v. 9, no. 1, 1965, 64-69

TOPIC TAGS: flame, flame temperature, radiometer, thermal battery, heat

transfer coefficient, black body radiation

ABSTRACT: The article gives construction details of a radiometer without means of condensation which gives sufficiently accurate measurements of flame properties, using the Schmidt method for calculation. A simple model was first constructed which consisted basically of a thermopile and three diaphragms or orifice plates. Experimental results from this type of radiometer were unrealistic. Analysis led to the conclusion that the reason for the errors in measurement was turbulent pulsations of the flame which, penetrating to the thermopile, increased

Card 1/2

L 6h318-65

ACCESSION NR: AP5020215

3

the heat transfer coefficients at the electrode and at the "base", and intensified the field. A new model was constructed with a larger number of diaphragms to eliminate the effect of turbulent pulsations. The body of the instrument and the diaphragms were made of copper and the diaphragms were welded to the body. The article shows a schematic with construction details. Scatter of the readings calibrated against a black body, does not exceed 1%. Preliminary evaluation of the Schmidt method in this instrument yields the following maximum possible errors: radiation of the flame, 1.5%; absorptive capacity of the flame, 6.5%; and, temperature of the flame, 5%. The accuracy achieved in practice was less, the scatter of the readings being 10-15%. Orig. art. has: 9 formulas, and 3 figures

ASSOCIATION: Institut metallurgii, Yuzhno-Ural'skogo sovnarkhoza, g. Chelyabinsk (Metallurgical Institute, South Ural National Economy Council)

SUBMITTED: 16Nov64

ENCL: 00

SUB CODE: GC, TD

NR REF SOV: 007

OTHER: 002

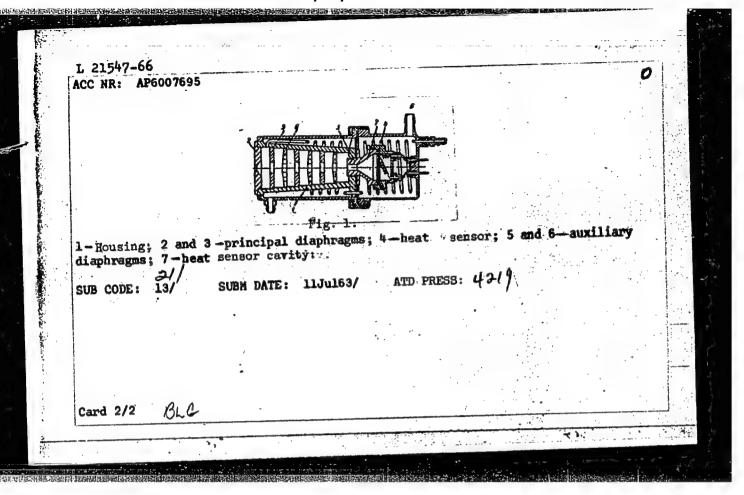
Card 2/2

SHEVELEV, V.M.

Criteria for the description of heat exchange in a furnace with stationary heat conditions. Izv. vys. ucheb. zav.; chern. met. 8 no.9:195-200 '65. (MIRA 18:9)

1. Chelyabinskiy nauchno-issledovatel'skiy institut metallov.

L 21547-66 SOURCE CODE: UR/0413/66/000/003/0074/0074 ACC NR: AP6007695 AUTHOR: Shevelev, V. M.; Markov, B. L. ORG: none Class 42. No. 178527 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye snaki, no. 3, 1966, 74 TOPIC TAGS: redicmeter, combustion chamber test ABSTRACT: This Author's Certificate introduces a radiometer for measuring the radia tion of a flame jet in a combustion chamber. The instrument contains a housing and two principal diaphragms which limit the radiation beam falling on the heat sensor located behind them. Measurement accuracy is improved by placing a set of auxiliary diaphragms between the two principal diaphragms. Two types of these auxiliary diaphragms are alternated: the first type has a central aperture with an axis at an angle to the optical axis of the radiometer, and the second type has a central aperture with an axis which coincides with the optical axis of the radiometer and two additional apertures along the periphery. Orig. art. has: 1 figure. UDC: 536.521.2 Card 1/2



26.2253

35961 \$/207/62/000/002/004/015 D237/D302

AUTHORS:

Aravin, G. S. and Shevelev, V. P. (Moscow)

TITLE:

Thermal ionization and electrical conductivity of some

mixtures and combustion products

PERIODICAL: Zhurnal Prikladnoy mekhaniki i tekhnicheskoy fiziki,

no. 2, 1962, 20-31

ionization (Sach equation) and making extensive use of the available data, the authors compute electron concentrations and electrical conductivity for various inert gases A, N_2 , He) with addition of easily ionizable elements (Cs, K, Na), between 1500 - 4000°K, and for combustion products of some gaseous, highly calorific fuels at atmospheric pressure with Cs, K and Na. Electrical conductivity of the mixtures and its dependence on the temperature and pressure, were studied for various gases and concentrations of additives. An approximate formula was obtained for the optimal ratio of weights $lpha_{
m opt}$ of the additive ${\tt G_1}$ and the gas

Card 1/3

S/207/62/000/002/004/015 D237/D302

Thermal ionization and ...

G₂, which is

$$\alpha_{\text{opt}} = \frac{\mu_{1} \left[\frac{q_{2}}{Q_{1} - Q_{2}} + \sqrt{\frac{K_{1}Q_{2}}{p(Q_{1} - Q_{2})}} \right]}{\mu_{2} \left[1 - 2 \sqrt{\frac{K_{1}Q_{2}}{p(Q_{1} - Q_{2})} - \frac{Q_{2}}{Q_{1} - Q_{2}}} \right]}$$
(3.1)

where μ_1 and μ_2 are mol. wts. of the additive and the gas respectively, Q_1 and Q_2 are the respective concentrations, K_1 = ionization constant of the additive, p = pressure. The influence of electric and magnetic fields was neglected and the results are approximate. The various relationships are presented in tabular and graphical forms. In conclusion the authors note that the addition of easily ionized

Card 2/3

S/207/62/000/002/004/015 D237/D302

Thermal ionization and ...

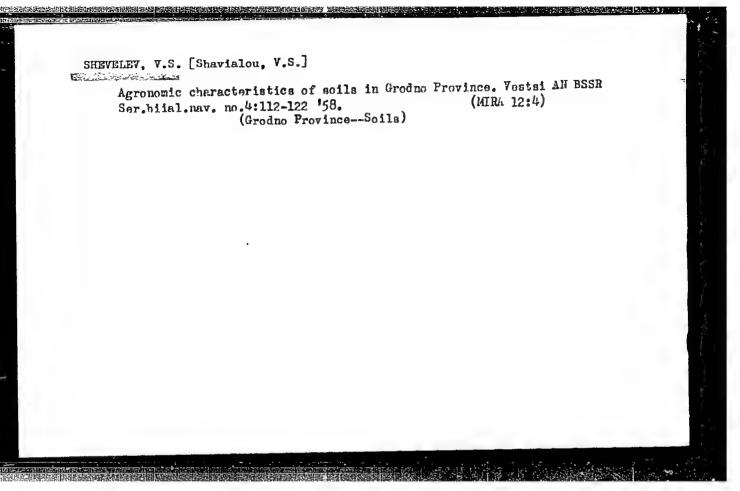
substances appears to be an effective way of lowering the temperature at which the sparingly ionizable material reaches a certain degree of electrical conductivity. Further research is considered important in connection with magnetohydrodynamic conversion of heat into electricity. There are 12 figures and 36 references: 10 Soviet-bloc and 26 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: L. W. Knewstubb and T. M. Sugden, Proc. Roy. Soc., 1960, ser. A., v. 255, no. 1283; F. M. Page, Trans. Far. Soc., 1961, v. 57, 3, no. 459; W. Chinitz, C. L. Eisen, R. A. Gross, ARS Journal, 1959, v. 29, no. 8; R. J. Rosa, Phys. Fluids, 1961, v. 4, no. 2.

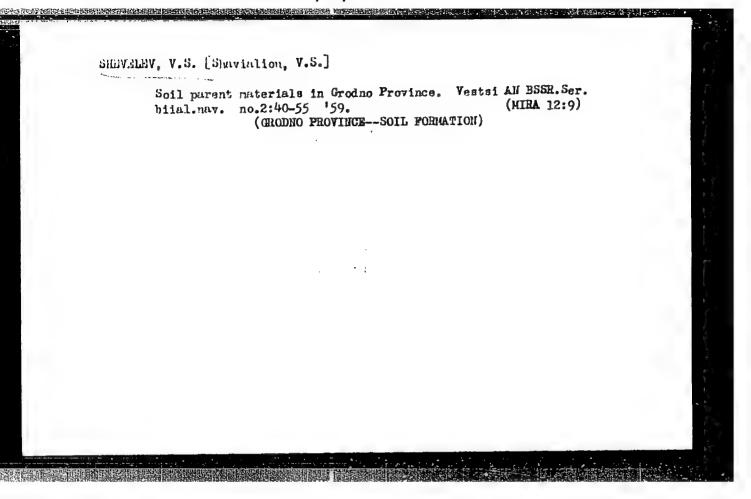
ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of

Chemical Physics, AS USSR)

SUBMITTED: November 30, 1961

Card 3/3





AUTHOR: TITLE:

32-6-27/54 SHEVELEV, V.V., OBOZOV, I.P. On the Relative Elongation and Relative Contraction of Samples with Rectangular Section. (Ob otnositel nom udlinenii i otnositelnom suzhenii obraztsov pryamougel'nogo secheniya, Russian) Zavodskaya Laboratoriya, 1957, Vol 23, Nr 6, pp 725 - 726

PERIODICAL:

(U.S.S.R.)

ABSTRACT:

The plastic properties of metals are judged by relative elongations $/\delta_k$ and relative contractions $/\Psi_k$ of rectangular samples with different conditions of width /b/ and strength /a/. A sample with rectangular section is known to have lower values $\delta_{\rm k}$ and $\Psi_{\rm k}$ than such with a round section. These values are, furthermore, lower if the ratio b is increased. On this basis the samples with rectangular section and different $\frac{b}{a}$ ratios are subjected to tensile tests, and the results obtained are used for the evaluation of plastic properties. The following results are obtained by calculation of the ratio $\frac{b}{a}$

and the five-fold and ten-fold elongation of the samples with

rectangular section: $\delta_5 = \frac{1}{0,025 \frac{b}{a} + 1,295}$, $\delta_{10} = \frac{1}{0,050 \frac{b}{a} + 1,390}$

Card 1/2

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32-6-27/54

On the Relative Elongation and Relative Contraction of Samples with Rectangular Section.

By comparison it is proved that the experimental values obtained do not deviate by more than 4% from claculated values. (2 tables)

ģ

ASSOCIATION: Institute for Mechanics, Tula.

PRESENTED BY:

SUBMITTED:

AVAILABLE:

Library of Congress

Card 2/2

nevelev

AUTHORS:

Obozov, I.P., Shevelev, V.V.

32-1-33/55

TITLE:

Significance of the Relative Dimensions of a Flat Sample Cross Section for the Determination of Low Carbon Steel Plastic Properties

(O znachenii otnositel'nykh razmerov

200 poperechnogo secheniya ploskogo obraztsa v otsenke plasticheskikh

svoystv malouglerodistoy stali).

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 1, pp. 84-85 (USSR)

ABSTRACT:

In samples of plastic metals the relative elongation δ' or shrinkage ψ_k , conditions being equal, depends on the shape and the mass ratio in the cross section. For the purpose of determining this ratio the samples of steel having a low content of carbon (0.08-0.13% C) with the cross section $\frac{b}{a}$ (width and thickness) = $\frac{8}{1}$ were subjected to a test. For the calculation of $\psi_{\boldsymbol{k}}$ it was assumed that at its point of fracture the sample consisted of 2 trapezoids, which were placed against each other with their smaller straight surfaces, and that the sum of these surfaces was equal to the surface in the cross section of the sample. The fractured surface Fk

Card 1/2

therefore was:

Significance of the Relative Dimensions of a Flat Sample Cross Section for the Determination of Low Carbon Steel Plastic Properties

32-1-33/55

 $F_k = b_1 \frac{a' + a'' + 2a_1}{b} \ , \ \text{where } b_1 \ \text{denotes the width of the point}$ of fracture in the sample; a', a'' and a_1 - the thickness of the point of fracture: on the first and second edge and in the center. In the course of dealing with experimental results it was found that there is a linear ratio between ψ_k and $\frac{b}{a}$, which is determined by the amount of the angle between two regression straight lines. As is further shown, no connection of perpetual validity could be found between d' and $\frac{b}{a}$ because conditions of elongation differ completely as e.g. in steel, copper, and brass. There are 2 figures.

ASSOCIATION: Tula Mechanical Institute (Tul'skiy mekhanicheskiy institut).

AVAILABLE: Library of Congress

Card 2/2 1. Metallury 2. Steels-Physical properties-Determination

3. Steel-Plasticity

SHEVELEV, Viktor Vasil'yevich; SHEKHTER, V.Ya., kand. tekhn.nauk, retsenzent; BUMSHTEYN, S.I., inzh., red.; AGEYCHEVA, N.S., red.izd-va; VLADIMIROVA, M.S., tekhn.red.

[Fundamentals of the design of universal dies] Konstruktsii i osnovy proektirovaniia universal nykh shtampov. Moskva, Mashinostroenie, 1964. 327 p. (MIRA 17:2)

ACC NR:	AR6023326 SOURCE CODE: UR/0276/66/000/003/2003/E004
AUTHOR:	Shevelev, A. S.; Fadeyev, V. Ya.
TITLE: processes	Summation of production line errors in planning automated technological
SOURCE:	Ref. zh. Tekhnologiya mashinostroyeniya, Abs. 3B26
REF SOURCE	E: Tr. <u>Kuybyshevsk. aviats. in-ta</u> , vyp. 20, ch. 1, 1965, 25-35
TOPIC TAGS	5: error measurement, machine industry, industrial automation, stic automation
errors for according arithmetic errors who any two po- machining borochnogo	A method is proposed for separate summation of random and systematic rechnological machining processes. Summation of random errors is done to the rules of probability theory and systematic errors are added cally. Calculations and formulas are given for summation of operational ich may be used for determining the accuracy in the relative location of lanes machined on different operations, and to analyze allowances in flat surfaces. See also RZh "Tekhnologiya i oborudovaniye mekhanoproizvodstra", 1964, 12841. 4 illustrations, bibliography of L. Tsukerman. [Translation of abstract]
	13
SUB CODE:	†

L OhOhh-67 EVT(1)/EVT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD

ACC NR: AR6022140 SOURCE CODE: UR/0276/66/000/002/B004/B004

AUTHOR: Shevelev, A. S.; Fadeyev, V. Ya.

TITLE: Summation of systematic and random errors in the determination of

precision machining, according to linear dimensions

SOURCE: Ref. zh. Tekhn mashinostr. Abs. 2B29

REF SOURCE: Tr. Kuybyshevsk. aviats. in-t, vyp. 20, ch. 1, 1965, 63-70

TOPIC TAGS: machining, machining error, error, error determination

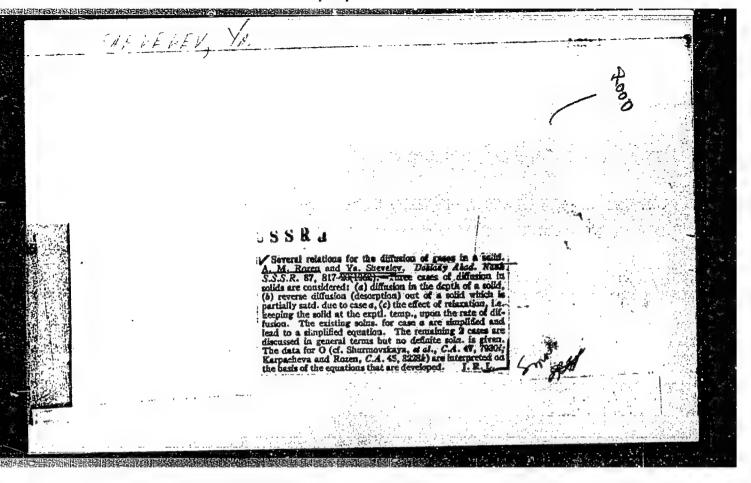
ABSTRACT: The error of machining by linear dimensions in the general form is:

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Card 1/2

UDC: 621, 9, 001, 5

L OliOlili-67 ACC NR: AR6022140		Ø	
atch (of parts) in the nonsymmetric arra ons in relation to the field of tolerance. A reference items are given. L. Tikho	Four figures, 2 tables,	and a bibliograp	hy
JB CODE: 13/	•		
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Card 2/2			



Sheveney, Ya. V. PA 240T10

USSR/Chemistry - Adsorption

. Dec 52

"Some Rules of the Sorption of Gases by Polydisperse Catalysts When There Is Combination of Adsorption and Solution," A. M. Rozen and Ya. V. Shevelev

"DAN SSSR" Vol 87, No 6, pp 1017-1020

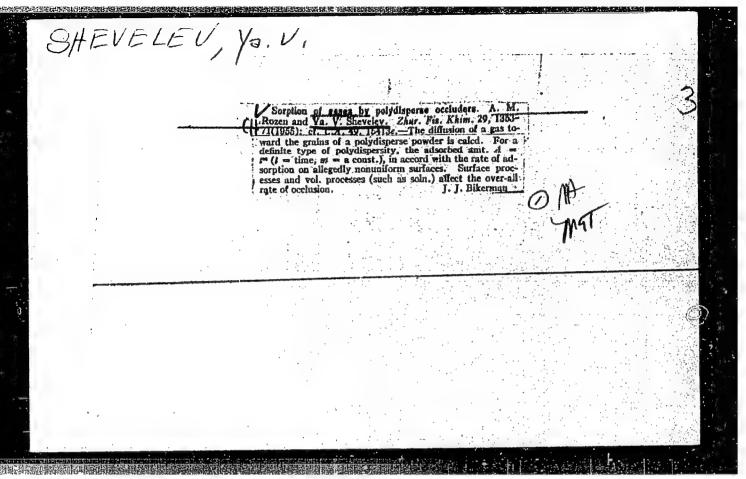
The authors show in a mathematical way that similar results can be obtained by assuming either a polydisperse state of the catalysts or a combination of adsorption and soln. Presented by Acad A. N. Frumkin 20 Oct 52.

240T10

Applied Mechanics Reviews Vol. 7 No. 4 Apr. 1954 Hydraulics, Cavitation, Transport

1155. Shevelev. Ya. V., Poiseuille's flow in nonsymmetrical radial clearance; analogy with the torsion of beams (in Russian), Doklady Akad. Nauk. SSSR (N.S.) 91, 1, 35-38, 1953.

Kuznetsov (1952) of tained the erroneous result that the laminar resistance of cylindric tubes can be diminished by inserting an eccentric inner tube. Author therefore investigates the exact solution of the laminar flow though the annular space of two eccentric tubes. The problem follows the same differential equation as the torsion of a beam with the same annular cross section. The known solution of the latter problem by Macdonald (1894) is applied, using bipolar coordinates. Also the cases of the inner or outer tube moving in axial direction are considered. A graph shows the dependence of the flow quantity and also of the torsional stiffness from the ratio of radii and eccenticity. W. Wuest, Germany 5/24/54



SHEVELEY, Y. V.

Shevelev, YA. V. "The adsorption of krypton from a helium current." Min Higher Education. Moscow Engineering-Physics Inst. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science)

So: Knizhnaya letopis', No. 27, 1956. Moscow. Pages 94-109; 111.

NEVSTRUYEVA, Ye.I., [translator]; SHEVELVA, V., [translator]; STYRIKOVICH, M.A., redaktor; SHESTOPEROVA, N.V., redaktor; KLIMENKO, S.V., tekhnicheskiy redaktor.

[Four lectures on nuclear energy] Chetyre lektsii po iadernoi energetike. [Translated from the English] Perevod s angliiskogo E.I.Nevstruevoi i IA.V.Sheveleva. Pod red. M.A.Styrikovicha. Moskva, Izd-vo inost.lit-ry, 1957. 228 p. (MIRA 10:11)

1. Institution of Mechanical Engineers, London. 2. Chlen-korrespondent Akademii nauk SSSR (for Styrikovich).

(Atomic energy)

Shevelev, YAV

AUTHOR:

SHEVELEV, Ya.V.

The Thermal Utilization in a Narrow Lattice. (Koeffitsient ispol'zovanii teplovykh neytronov b tesnoy reshetke, Russian).

Atomnaia Energiia, 1957, Vol 2, Nr 3, pp 217 - 223 (U.S.S.R.).

Reviewed: 5 / 1957

PERIODICAL:

Received: 4 / 1957

ABSTRACT:

This coefficient of the utilization of thermal neutrons in a heterogeneous nuclear reactor is defined in the following manner:

Q = (number of thermal neutrons absorbed in the blocks of a cell/
number of thermal neutrons absorbed in the entire cell). The
number of thermal neutrons absorbed in the entire cell). The
present paper computes Q for a narrow lattice. It is assumed that
present paper computes Q for a narrow lattice. It is assumed that
the field of neutrons is described by diffusion equation. However,
the form of solution given here permits the introduction for
corrections for the deviations from the diffusion approximation
in the block and near the block. For lattices with a high degree
of symmetry (e.g. in the case of a triangular lattice) corrections
of the formula obtained by the method of " threadshaped blocks"
(or by that of the Wigner-Seitz cell) are very small. This applies
even if the volume of the blocks exceeds the volume of the
moderator.

The field of thermal neutrons in the moderator and 9: The density of the slowing down of the neutrons is assumed to be constant and numerically equal to the capture cross section of the volume unit of the moderator. It is then possible to describe the flux of

Card 1/2

PA - 2302

· Shoular, UAV

AUTHOR: TITLE:

PA - 2303 SHEVELEV,, YA, V. The Diffusion of Neutrons in a Plane Uranium Water Lattice.

(Diffusiya neytronov v ploskoy uranvodnoy reshetke, Russian)

Atomnaia Energiia, 1957, Vol 2, Nr.3, pp 224 - 230 (U.S.S.R.) Reviewed: 5 / 1957 Received: 4 / 1957

ABSTRACT:

PERIODICAL:

The computation of the diffusion of neutrons in a lattice with cylindrical blocks is complicated. The present paper deals with a simpler problem: Neutron diffusion in a plane lattice is parallel and vertical to the layers. Anisotropy must, by the way, be smaller in a cylindrical lattice than in a plane lattice. First the problem is solved in diffusion approximation in consideration of absorption. Then the problem of longitudinal diffusion is rigorously solved, but without absorption. The result is an interpolation formula in consideration of both absorption and deviation from the diffusion theory.

Transversal diffusion with absorption: A drawing illustrates a lattice with alternating layers of two substances with different capture cross-sections and different transport lengths. The plane neutron source is in - ∞ and diffusion is vertical to the layers. The thickness of the layers is great, but their capture cross-section are small. For this case the diffusion equation and its solution are given. The homogeneous equation system resulting herefrom can only be solved in case of a certain value of the required length of

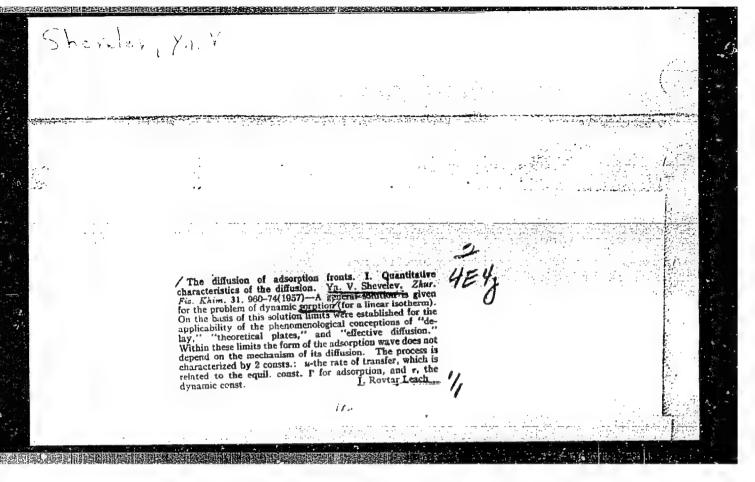
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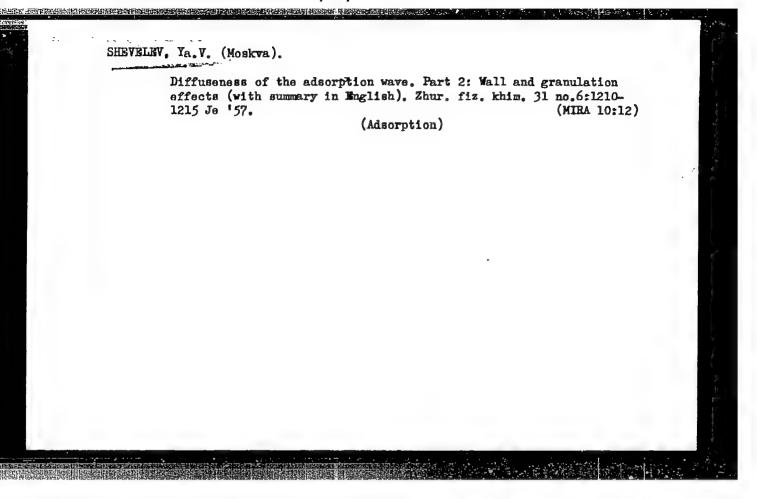
ROZEN, A.M.; KARPACHEVA, S.M.; SHEVELEV, Ya.V.

Mobility of oxygen in oxides, and kinetics of oxygen exchange.

Probl. kin. i kat. 9:251-263 '57. (MIRA 11:3)

(Oxides) (Oxygen--Isotopes) (Catalysts)





SHEVELEV, Ya. V.; FEYNFERG, S. M.; ANTSIFEROV, Ye. S; KATKOV, V. P.; KOMISSAROV, L. V.; LEVINA, I. K.; NIKOL'SKIY, Yu. V.; NOVIKOV, A. N.; OSMACHKIN, V. S.; STOLYAROV, G. A.

"Fuel Burn Up in Water-water Power Reactors and Experiments with the Uranium Water Lattice."

report presented at the 2nd Intl. Conference on the Peaceful Uses of Atomic Energy, Geneva, 1958.

published in Doklady sovetskikh uchenykh; yadernyye reaktory i yadernaya energetika. (Reports of oviet Scientists; Nuclear Reactors and Nuclear Power Moscow, Atomizdat, 1959. 707pp. Vol. 2

21,1000

\$/089/63/014/002/009/019 B102/B186

AUTHORS:

Shevelev, Ya. V., Saul'yev, V. K.

TITLE:

Some aspects of the application of a two-dimensional twogroup diffusion program

PERIODICAL:

Atomnaya energiya, v. 14, no. 2, 1963, 200 - 205

TEXT: A program for the numerical solution of the reactor equations

 $-\operatorname{div}\left(D_{1}\operatorname{grad}\Phi_{1}\right)+\Sigma_{1}\Phi_{1}=\frac{1}{k}\Sigma_{2\rightarrow1}\Phi_{2};$

 $-\operatorname{div}\left(D_2\operatorname{grad}\Phi_2\right) + \Sigma_2\Phi_2 = \Sigma_{1\to 2}\Phi_i$

 $-\operatorname{div}(D\operatorname{grad}\Phi) + \Sigma\Phi = F$ (3)

in two-group diffusion approximation and in plane geometry was established at the Ordena Lenina Institut atomnoy energii AN SSSR (Lenin Order Institute of Atomic Energy AS USSR) in the years 1957 - 1958. The present purpose was to find out how far this program can be extended to a larger area of the reactor problems under the same simple assumptions as to the integration

Card 1/3

Some aspects of the application...

S/089/63/014/002/009/019 B102/B186

domain and properties of symmetry and continuity. The solution of Eq. (1) - (3) depends on an application of the net method and on using an iteration procedure for solving the system of net equations. For this purpose the rectangular integration domain R is covered in such a manner with the net lines that the latter coincide with the lines of discontinuity of the coefficients D_i , Σ_i , Σ_{2+1} , and Σ_{1+2} . For carrying out this program it is necessary that R be regularly expressible as the sum of elementary rectangles. This is made possible by a linear continuation of the discontinuity lines of the coefficients up to the surface of R. One has thus the system of net equations for all nodes inside of R plus the boundary conditions on the surface of R which together form a system of linear algebraic equations that can be solved by iteration. The relaxation factors of the consecutive upper relaxations are automatically selected as optimal. This happens in block 2 of the three-block program. Block 1 is the principal block; blocks 2 and 3 are auxiliary blocks which work only in the first stage of computation; 3 serves to formulate the commands. In practice there are a number of cases for which the program is suitable in first approximation, but also elements which are contradictory to it. Some examples of such cases are given and it is shown how the program can be

Some aspects of the application...

S/089/63/014/002/009/019 B102/B186

adapted to the distorted factors. Some of these devices are applicable to other programs also. These cases include the appearance of non-diffusion effects, distortions of two-dimensionality and errors arising from the limitation to two groups only. It is finally shown that the program can be applied also to some special cases for calculations of temperature distribution.

SUBMITTED: March 17, 1962

Card 3/3

-SHEVELEV, YA.V.

AID Nr. 977-5 27 May EFFECT OF CHANNELS AND SLITS ON REACTIVITY (USSR)

Shevelev, Ya. V. Atomnaya energiya, v. 14, no. 4, Apr 1963, 364-370. S/089/63/014/004/004/019

The effect or cynndrical and plane inclusions in a reactor core has been investigated analytically by means of a perturbation theory. The following conditions were assumed: 1) the transport cross section of an inclusion (Σ^i_{tr}) differs from the transport cross section of a surrounding medium (Σ_{tr}) by an arbitrary value, 2) the change in reactivity ρ with a change in Σ_{tr} is small as compared to k_{rr} - 1, and 3) the transverse dimensions of the zone with variable Σ_{tr} are small with respect to the vertical dimensions. On the basis of the neutron flux distribution in a laminated medium and near a cylinder, an expression is derived for the relationship between the change in reactivity and the characteristics of an inclusion, e.g., its transport cross section,

Card 1/2

AID Nr. 977-5 27 May

EFFECT OF CHANNELS [Cont'd]

3/089/63/014/004/004/019

volume, shape, and location. It was found that a row of cylinders arranged along the y-axis produce the same neutron flux jumps as a plane layer made of the same material, if the product of the volume of the cylinders and the function of the ratio of channel radius to transport length is equal to the volume of the layer. Also, the mean coefficient of diffusion for a series of layers has the same value as that for an equivalent row of cylinders. [AS]

Card 2/2

FEYNBERG, S. M.; SHEVELEV, Ya. V.

"The pulse reactor potentialities, (for neutrino investigations 1)."
report presented at the 3rd Intl Conf on Peaceful Uses of Atomic Energy, Geneva,
31 Aug-, Sep 64.

SHEVELEY, Ya. V.; ZHIRNOV, A. D.; TALYZIN, V. M.

"Potentialities of pulsed reactors."

report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva,
31 Aug-9 Sep 64.

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549320001-6

Pr-4/Ps-4/Pu-4 AEDC(b)/SSD/ EWT(m)/EPF(c)/EPF(n)-2/EPR 19863-65 S/ MLK . BOOK EXPLOITATION BSD/AFWL ACCESSION NR ANSON

Kramerov, Aleksandr YAkovlevich; Shevelev, YAsen Vladimirovich

Engineering calculations of nuclear reactors (Inzhenerny ye raschety yadernykh reaktorov), Moscow, Atomizdat, 1964, 715 p. illus., biblic. Errata slip

inserted. 2,050 copies printed.

TOPIC TAGS: nuclear reactor

PURPOSE AND COVERAGE: This book is devoted to the methods for engineering calculations of nuclear reactors -- thermal and hydromechanical. In addition, it touches on problems associated with thermal stresses and strains. A large part of the book is taken up by analysis of nonstationary processes. Reactors with boiling and nonboiling heat carriers are considered. There is a detailed description of the effect of various random deviations from calculated conditions on the output characteristics of a reactor (the mechanical factors). Besides the calculations, the problems that are associated in one way or another with the selection of the best engineering calculations are cited. The selection of the optimal parameters is dealt with in the concluding section. The book is intended for engineers who design reactors and students in power engineering and engineering physics. A number of the sections will be useful to engineers concerned with the use of nuclear Card 1/4

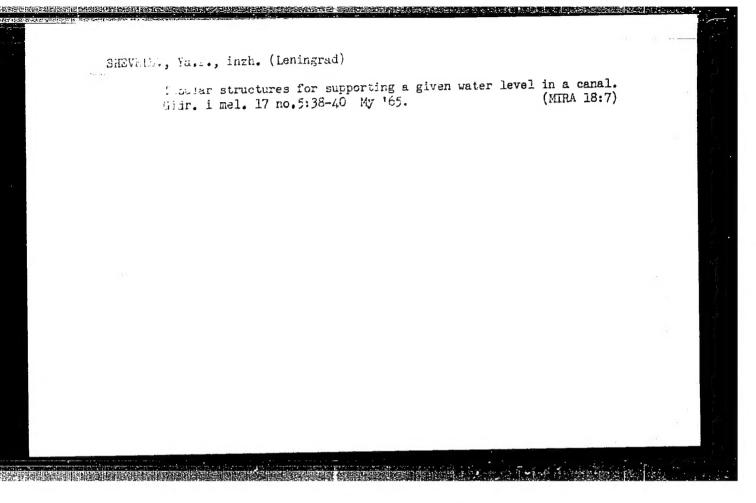
L 19863-65 ACCESSION NR ALESTEE power installations. 0 TABLE OF CONTENTS [abridged]: Section 1. General information on reactor installations Foreword -- 3 Ch. I. General information on nuclear reactors -- 5 Ch. II. Thermodynamics of nuclear power installations -- 26 Ch. III. Heat generation in a reactor -- 42 Ch. IV. Field of temperatures in a reactor with a nonboiling coolant and solid Section 2. Calculation of reactors Ch. V. Energy expended for circulation of the coolant -- 127 Ch. VI. Random deviations from nominal conditions of heat generation in the reactor (mechanical factors) -- 155 Ch. VII. Some problems of the strength and thermal stress of reactors -- 234 Section 3. Calculation of boiling reactors Ch. VIII. Types and features of boiling reactors -- 302 Ch. IX. Calculation of channels with boiling coolant -- 317 Ch. X. Calculation of a reactor with multiple circulation -- 347 Card 2/4

L 19863-65 ACCESSION NR Ch. XI. Selection of the parameters of a boiling reactor -- 368 Ch. XII. Reactors with superheated steam and direct evaporation -- 393 Ch. XIII. Non stationary temperature field in a reactor with a nonboiling coolant -- 409 Ch. XIV. Nonstationary thermal processes in a boiling reactor with organized circulation -- 468 Ch. XV. Nonstationary circulation of the coolant -- 496 Ch. XVI. Change in reactor power -- 513 Ch. XVII. Nonbeiling reactor with nonstationary conditions -- 532 Ch. XVIII. Boiling reactor under nonstationary conditions -- 562 Ch. XIX. Explosions or neutron bursts -- 578 Ch. XX. Nonstationary processes in a nuclear power installation -- 61h Ch. XXI. Selection of basic design -- 622 Ch. XXII. General method of selecting optimal parameters -- 635 Ch. XXIII. Relationships between optimal parameters -- 659 Bibliography -- 702

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L 24218-65 EWT(m)/EPF(c)/EPF(n)-2/EPR Pr-4/Ps-4/Pu-4 ACCESSION NR: AP5001268 S/0089/64/017/006/0463/0474 (deceased)
V.; Feynberg, S. M.; Dollezhal', N. A.; Aleshchenkov AUTHOR: Kurchatov, I. P. I.; Drozdov, F. S.; Yemel'yanov, I. Ya.; Zhirnov, A. D.; Kazachenko, M. A. Knyazeva, G. D.; Kondrat'yev, F. V.; Lavrenikov, V. D.; Morgunov, N. G.; Petunin, B. V.; Smirnov, V. P.; Talyzin, V. M.; Filippov, A. G.; Chikhladze, I. L.; Chulkov, P. M.; Shevelev, Ya. V. TITLE: Pulse graphite reactor IGR SOURCE: Atomnaya energiya, v. 17, no. 6, 1964, 463-474 TOPIC TAGS: pulse graphite reactor, high neutron flux pulse, nuclear reactor ABSTRACT: The paper is a summary of the SSSR #322a report at the International Conference on Peaceful Uses of Atomic Energy in Geneva, 1964. It represents an elaboration of the description of the pulse graphite reactor IGR given by S. M. Feinberg at the Second International Conference. The pulse reactors are used when a high neutron flux is desirable. The described reactor was in opera-1/2

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Translation from: Referativnyy Zhurnal, Mashinostroyeniye 1957, Nr 1, p. 220 (USSR)

AUTHOR:

Shevelev, Ye.I.

TITLE:

Automatic Temperature Adjustment in Flame Thermal Furnaces (Experience of the Ural Railroad Car Building Plant) (Avtomatizatsiya regulirovaniya temperatury plamennykh termicheskikh pechey. (Opyt Ural'skogo

vagonostroitelin. zavoda))

PERIODICAL:

Obmen tekhn. opytom. Vses.proyektno-tekhnol. in-t,

1956, Nr 10, p.20

ABSTRACT:

Bibliographic entry.

Card 1/1

"APPROVED FOR RELEASE: 08/09/2001

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S/117/60/000/008/007/020 A002/A001

AUTHOR:

Shevelev, Ye.M.

TITLE:

Forging Dies With Inserts Fixed by Balls

PERIODICAL:

Mashinostroitel', 1960, No. 8, pp. 15-16

TEXT: Efficiency experts V.F. Osipenko, P.P. Shcheponikov and V.A. Kuchumov suggested fixing of forging die inserts in casings with the aid of standard balls. Circular, corresponding grooves are cut into the casing and the insert made of 5XHB (5KhNV) or 5XHM (5KhNM) steel. After installing the insert into the casing, the circular groove is filled with balls through an aperture in the casing. The aperture is then closed by a bolt. This method eliminates the time-consuming heating of die casings for installing or removing the inserts. The quality of the forging improves, too. Standard balls of 20.638 mm diameter are used for larger dies, while balls of 5.081 mm diameter are used for smaller dies; according to COCT 3722-54 (GOST 3722-54). The efficiency of this method was proved during 18 months of practical application. There are 3 figures.

Card 1/1

MAZUROVA, T.M.; POPOVA, T.I.; SHRUSHKOVICH, A.Ya.; SHEVELEVA, A.A.; GUNER, I.I.; LAVRENOVA, V.A.

Letter to the editors. Stomatologia 38 no.3:72 My-Je 159. (MIRA 12:8)